Index of Authors

ADAMSON, E. D., AYERS, S. E., DEUSSEN, Z. A. & GRAHAM, C. F. Analysis of the forms of acetylcholinesterase from adult mouse brain 205–214

ALECHINA, R. P. *see* LICHTENSTEIN, A. V. 447–456

ALLEN, J. K. *see* OSTERBURG, H. H. 367–368

ANTONINI, E. *see* PHELPS, C F. 385–391; WILSON, M. T. 145–153

ASKELÖF, P., GUTHENBERG, C. JAKOBSON, I. & MANNERVIK, B. Purification and characterization of two glutathione *S*-aryltransferase activities from rat liver 513–522

AYERS, S. E. *see* ADAMSON, E. D. 205–214

BAGHURST, P. A., NICHOL, L. W., OGSTON, A. G. & WINZOR, D. J. Quantitative interpretation of concentration-dependent migration in gel chromatography of reversibly polymerizing solutes 575–583

BAR-ELI, A. *see* GORECKI, M. 131–137

BEINTEMA, J. J. *see* WELLING, G. W. 505–511

BELLON, F. & LAPRESLE, C. Chemical structure of two fragments of human serum albumin and their location in the albumin molecule 585–592

BERNS, D. S. *see* KAO, O. H. W. 63–70

BLOXHAM, D. P. Selective inhibition of cholesterol synthesis by cell-free preparations of rat liver by using inhibitors of cytoplasmic acetoacetyl-coenzyme A thiolase 531–539

BORTHWICK, N. M. & SMELLIE, R. M. S. The effects of oestradiol-17β on the ribonucleic acid polymerases of immature rabbit uterus 91–101

BOULTER, D. *see* SCAWEN, M. D. 343–349

BRAMLEY, T. A. Ethylenediamine-*NN'*-tetra-acetate-dependent amino acid-stimulated inactivation of mouse ovarian alkaline phosphatase activity 259–265

BRAY, D. & THOMAS, C. The actin content of fibroblasts 221–228

BRENNAN, P. J. & ROE, J. The occurrence of a phosphorylated glycosphingolipid in *Aspergillus niger* 179–180

BRIGHTWELL, M. D., LEECH, C. E., O'FARRELL, M. K., WHISH, W. J. D. & SHALL, S. Poly(adenosine diphosphate ribose) polymerase in *Physarum polycephalum* 119–129

BRILEY, M. S. & EISENTHAL, R. Association of xanthine oxidase with the bovine milk-fat-globule membrane. Nature of the enzyme–membrane association 417–423

BRITTAIN, T. & GREENWOOD, C. A comparative study of some kinetic and spectral properties of guanidinated and native cytochrome *c* 175–177

BRITTAIN, T. & GREENWOOD, C. The preparation and some properties of mammalian cytochrome *c* modified with 2-hydroxy-5-nitrobenzyl bromide 253–258

BRUNORI, M. *see* WILSON, M. T. 145–153

BRUTON, C. J. The infrastructure of valyl-transfer ribonucleic acid synthetase from yeast 191–192

BURSTEIN, Y. *see* GORECKI, M. 131–137

BURTON, K. A. *see* SMITH, M. W. 617–619

CAMERON, E. H. D. *see* COLLINS, W. 165–174

CAMPBELL, J. *see* MORRIS, D. L. 593–603

CAMPOS-CAVIERES, M. & MILSTEIN, C. P. The sequences of the coenzyme-binding peptide in the cytoplasmic and the mitochondrial aspartate aminotransferases from sheep liver 275–281

CAZZULO, J. J. *see* HIGA, A. 267–274

CHAIN, E. B. *see* GORECKI, M. 131–137

CHEN, S.-S. & ENGEL, P. C. The equilibrium position of the reaction of bovine liver glutamate dehydrogenase with pyridoxal 5′-phosphate. A demonstration that covalent modification with this reagent completely abolishes catalytic activity 351–358

COLLINS, W. & CAMERON, E. H. D. Subcellular localization and properties of mouse adrenal C_{19}-steroid 5β-reductase. 165–174

COX, R. A. *see* HADJIOLOV, A. A. 625–628

CREANOR, J. *see* FRASER, R. S. S. 401–410

CREDO, R. B. *see* STENBERG, P. 155–163

CREVELING, R. K. *see* MAZELIS, M. 485–491

CRUICKSHANK, W. H. & KAPLAN, H. Properties of the histidine residues of indole-chymotrypsin. Implications for the activation process and catalytic mechanism 411–416

CURTIS, C. G. *see* STENBERG, P. 155–163

DABSCHECK, R. *see* SAWYER, W. H. 613–615

DARBRE, A. *see* RANGARAJAN, M. 435–438

DARVEY, I. G. *see* WALKER, E. J. 425–433

DAVIDSON, R., GERTLER, A. & HOFMANN, T. *Aspergillus oryzae* acid proteinase. Purification and properties, and formation of π-chymotrypsin 45–53

DEUSSEN, Z. A. *see* ADAMSON, E. D. 205–214

DICKENSON, C. J. & DICKINSON, F. M. A study of the oxidation of butan-1-ol and propan-2-ol by nicotinamide–adenine dinucleotide catalysed by yeast alcohol dehydrogenase 541–547

DICKENSON, C. J. & DICKINSON, F. M. A study of the pH- and temperature-dependence of the reactions of yeast alcohol dehydrogenase with ethanol, acetaldehyde and butyraldehyde as substrates 303–311

DICKINSON, F. M. *see* DICKENSON, C. J. 303–311, 541–547

EDWARDS, M. R. *see* KAO, O. H. W. 63–70

EISENTHAL, R. *see* BRILEY, M. S. 417–423

ELCE, J. S. *see* GREEN, R. M. 283–289

ENGEL, P. C. *see* CHEN, S.-S. 351–358

FELIX, R. & FLEISCH, H. Properties of inorganic pyrophosphatase of pig scapula cartilage 111–118

FELIX, R. & FLEISCH, H. Purification and heterogeneity of inorganic pyrophosphatase of pig scapula cartilage 103–109

FERGUSON, D. R. *see* SMITH, M. W. 617–619

FINCH, C. E. *see* OSTERBURG, H. H. 367–368

FLANAGAN, M. T. *see* HESKETH, T. R. 37–43

FLEISCH, H. *see* FELIX, R. 103–109, 111–118

FRASER, R. S. S. & CREANOR, J. The mechanism of inhibition of ribonucleic acid synthesis by 8-hydroxyquinoline and the antibiotic lomofungin 401–410

FREEMAN, K. B. *see* HALDAR, D. 621–623

GATES, R. E., PHILLIPS, D. R. & MORRISON, M. The distinguishing characteristics of the plasma membrane are its exposed proteins 373–376

GERTLER, A. *see* DAVIDSON, R. 45–53

GORE, M. G. & IWATSUBO, M. A deactivating conformational change induced by reduced nicotinamide–adenine dinucleotide phosphate in a *Neurospora* glutamate dehydrogenase 181–184
GORECKI, M. BAR-ELI, A., BURSTEIN, Y., PATCHORNIK, A. & CHAIN, E. B. Purification of D-alanine carboxypeptidase from *Escherichia coli* B on a penicillin–Sepharose column 131–137
GRACY, R. W. *see* PHILLIPS, T. L. 381–384
GRAHAM, C. F. *see* ADAMSON, E. D. 205–214
GRANT, D. A. W. & HERMON-TAYLOR, J. Purification of porcine enterokinase by affinity chromatography 363–366
GRAY, A. *see* STENBERG, P. 155–163
GREEN, R. M. & ELCE, J. S. Acetylation of *S*-substituted cysteines by a rat liver and kidney microsomal *N*-acetyltransferase 283–289
GREENWOOD, C. *see* BRITTAIN, T. 175–177, 253–258; MOORE, T. A. 335–341; WILSON, M. T. 145–153
GRIFFITHS, J. R. PRICE, N. C. & RADDA, G. K. A kinetic method to establish the specificity of spin labelling of macromolecules 609–612
GROEN, G. *see* WELLING, G. W. 505–511
GUTHENBURG, C. *see* ASKELÖF, P. 513–522

HACKING, A. J. & HASSALL, H. The purification and properties of L-histidine–2-oxoglutarate aminotransferase from *Pseudomonas testosteroni* 327–334
HADJIOLOV, A. A., COX, R. A. & HUVOS, P. The presence of a high-molecular-weight (guanine-plus-cytosine)-rich segment at the 3′ end of rabbit 28S ribosomal ribonucleic acid 625–628
HALDAR, D., WATERS, B. K. & FREEMAN, K. B. A simple method of characterizing mitochondrial ribonucleic acid 621–623
HASNAIN, S. & WILLIAMSON, D. G. Purification of multiple forms of the soluble 17α-hydroxy steroid dehydrogenase of rabbit liver 457–461
HASSALL, H. *see* HACKING, A. J. 327–334
HECKELS, J. E. *see* WRIGHT, J. 187–189
HERMON-TAYLOR, J. *see* GRANT, D. A. W. 363–366
HERS, H.-G. *see* LEDERER, B. 23–35
HESKETH, T. R. & FLANAGAN, M. T. The effect of zinc on the activity and fluorescence of carbonic anhydrase holoenzymes 37–43
HIGA, A. & CAZZULO, J. J. Some properties of the citrate synthase from the extreme halophile, *Halobacterium cutirubrum* 267–274
HOFMANN, T. *see* DAVIDSON, R. 45–53; TAKAHASHI, M. 549–563
HOPE, D. B., WÄLTI, M. & WINZOR, D. J. Co-operative binding of oxytocin to bovine neurophysin II 377–379
HORNBY, W. E. *see* MORRIS, D. L. 593–603
HUVOS, P. *see* HADJIOLOV, A. A. 625–628

INAGAMI, T. *see* NUREDDIN, A. 71–81
INATOMI, K. & SLAUGHTER, J. C. Glutamate decarboxylase from barley embryos and roots. General properties and the occurrence of three enzymic forms 479–484
IUPAC–IUB COMMISSION ON BIOCHEMICAL NOMENCLATURE Nomenclature of quinones with isoprenoid side chains. Recommendations (1973) 15–21
IUPAC–IUB COMMISSION ON BIOCHEMICAL NOMENCLATURE Nomenclature of tocopherols and related compounds. Recommendations (1973) 11–14
IUPAC–IUB COMMISSION ON BIOCHEMICAL NOMENCLATURE The nomenclature of corrinoids. Recommendations (1973) 1–10
IWATSUBO, M. *see* GORE, M. G. 181–184

JAKOBSON, I. *see* ASKELÖF, P. 513–522
JATON, J.-C. Comparison of the amino acid sequences of the variable domains of two homogeneous rabbit antibodies to type III pneumococcal polysaccharide 235–247
JENKINS, R. E. & TANNER, M. J. A. The major human erythrocyte membrane protein. Evidence for an S-shaped structure which traverses the membrane twice and contains a duplicated set of sites 393–399
JONES, M. N., SKINNER, H. A. & TIPPING, E. The interaction between bovine serum albumin and surfactants 229–234

KAO, O. H. W., EDWARDS, M. R. & BERNS, D. S. Physical-chemical properties of C-phycocyanin isolated from an acido-thermophilic eukaryote, *Cyanidium caldarium* 63–70
KAPLAN, H. *see* CRUICKSHANK, W. H 411–416
KAPOOR, C. L. Interaction of bilirubin with reconstituted collagen fibrils 199–203
KELLY, C. *see* PAU, R. N. 565–573
KINGSTON, I. B. & WILLIAMS, J. The amino acid sequence of a carbohydrate-containing fragment of hen ovotransferrin 463–472
KUNTZ, I. D. *see* SAWYER, W. H. 613–615

LAPRESLE, C. *see* BELLON, F. 585–592
LEAVER, J. L. *see* PETTIGREW, G. W. 291–302
LEDERER, B., VAN HOOF, F., VAN DEN BERGHE, G. & HERS, H.-G. Glycogen phosphorylase and its converter enzymes in haemolysates of normal human subjects and of patients with type VI glycogen-storage disease. A study of phosphorylase kinase deficiency 23–35
LEECH, C. E. *see* BRIGHTWELL, M. D. 119–129
LICHTENSTEIN, A. V., ALECHINA, R. P. & SHAPOT, V. S. Ribosomal and informational ribonucleoprotein complexes of animal cells. Study on rat liver ribonucleic acids as constituents of ribonucleoprotein complexes by chromatography on nucleoprotein–Celite columns 447–456
LORAND, L. *see* STENBERG, P. 155–163

MANNERVIK, B. *see* ASKELÖF, P. 513–522
MAZELIS, M. & CREVELING, R. K. Purification and properties of *S*-alkyl-L-cysteine lyase from seedlings of *Acacia farnesiana* Willd 485–491
MCNAMARA, D. J., RACEVSKIS, J., SCHUMM, D. E. & WEBB, T. E. Ribonucleic acid synthesis in isolated rat liver nuclei under conditions of ribonucleic acid processing and transport 193–197
MEYER, T. E. *see* PETTIGREW, G. W. 291–302
MILSTEIN, C. P. *see* CAMPOS-CAVIERES, M. 275–281
MONSEY, J. B *see* ROBINSONI D. S. 55–62
MOORE, T. A., GREENWOOD, C. & WILSON, M. T. Ligand binding to ferrocytochrome *c* at high pH 335–341
MORRIS, D. L., CAMPBELL, J. & HORNBY, W. E. A chemistry for the immobilization of enzymes on nylon. The preparation of nylon-tube-supported hexokinase and glucose 6-phosphate dehydrogenase and the use of the co-immobilized enzymes in the automated determination of glucose 593–603

MORRISON, M. *see* GATES, R. E. 373–376

NICHOL, L. W. *see* BAGHURST, P. A. 575–583
NOTT, P. R. *see* SAWYER, W. H. 613–615
NUREDDIN, A. & INAGAMI, T. Chemical modification of amino groups and guanidino groups of trypsin. Preparation of stable and soluble derivatives 71–81
NWAGWU, M. Preparation of polyribosome aminoacyltransfer ribonucleic acid from the muscle of chick embryos 473–477

O'FARRELL, M. K. *see* BRIGHTWELL, M. D. 119–129
OGSTON, A. G. *see* BAGHURST, P. A. 575–583
OSTERBURG, H. H., ALLEN, J. K. & FINCH, C. E. The use of ammonium acetate in the precipitation of ribonucleic acid 367–368

PADMANABAN, G. *see* SARDANA, M. K. 185–186
PATCHORNIK, A. *see* GORECKI, M. 131–137
PAU, R. N. & KELLY, C. The hydroxylation of tyrosine by an enzyme from third-instar larvae of the blowfly *Calliphora erythrocephala* 565–573
PETERSEN, G. B. *see* TATE, W. P. 439–445
PETTIGREW, G. W., LEAVER, J. L., MEYER, T. E. & RYLE, A. P. Purification, properties and amino acid sequence of atypical cytochrome *c* from two protozoa, *Euglena gracilis* and *Crithidia oncopelti* 291–302
PFLEGER, H. & WOLF, H. U. Activation of membrane-bound high-affinity calcium ion-sensitive adenosine triphosphatase of human erythrocytes by bivalent metal ions 359–361
PHELPS, C. F. & ANTONINI, E. A study of the kinetics of iron and copper binding to hen ovotransferrin 385–391
PHILIP, G. *see* SOMAN, G. 369–371
PHILLIPS, D. R. *see* GATES, R. E 373–376
PHILLIPS, T. L., PORTER, D. W. & GRACY, R. W. Nature of the multiple forms of sweet-potato glucose phosphate isomerase 381–384
PORTER, D. W. *see* PHILLIPS, T. L. 381–384
PRICE, N. C. *see* GRIFFITHS, J. R. 609–612

RACEVSKIS, J. *see* MCNAMARA, D. J. 193–197
RADDA, G. K. *see* GRIFFITHS, J. R. 609–612
RALSTON, G. B. *see* WALKER, E. J. 425–433
RAMSHAW, J. A. M. *see* SCAWEN, M. D. 343–349
RANGARAJAN, M. & DARBRE, A. Identification of amino acid thiohydantoins directly by thin-layer chromatography and indirectly by gas–liquid chromatography after hydrolysis 435–438
ROBINSON, D. S. & MONSEY, J. B. The composition and proposed subunit structure of egg-white β-ovomucin. The isolation of an unreduced soluble ovomucin 55–62
ROE, J. *see* BRENNAN, P. J. 179–180
RYLE, A. P. *see* PETTIGREW, G. W. 291–302

SALAHUDDIN, A. *see* WAHEED, A. 139–144
SARDANA, M. K., SATYANARAYANA RAO, M. R. & PADMANABAN, G. Effect of allylisopropylacetamide on nuclear ribonucleic acid synthesis in rat liver 185–186
SATYANARAYANA RAO, M. R. *see* SARDANA, M. K. 185–186
SAWYER, W. H., DABSCHECK, R., NOTT, P. R., SELINGER, B. K. & KUNTZ, I. D. Hydrodynamic changes accompanying the loss of metal ions from concanavalin A 613–615
SCAWEN, M. D., RAMSHAW, J. A. M. & BOULTER, D. The amino acid sequence of plastocyanin from spinach (*Spinacia oleracea* L.) 343–349
SCHUMM, D. E. *see* MCNAMARA, D. J. 193–197
SELINGER, B. K. *see* SAWYER, W. H. 613–615
SHALL, S. *see* BRIGHTWELL, M. D. 119–129
SHAPOT, V. S. *see* LICHTENSTEIN, A. V. 447–456
SKINNER, H. A. *see* JONES, M. N. 229–234
SLAUGHTER, J. C. *see* INATOMI, K. 479–484
SMELLIE, R. M. S. *see* BORTHWICK, N. M. 91–101
SMITH, J. A. & STOCKEN, L. A. Chemical and metabolic properties of adenosine diphosphate ribose derivatives of nuclear proteins 523–529
SMITH, M. W., FERGUSON, D. R. & BURTON, K. A. Glucose and phlorrhizin-protected thiol groups in pig intestinal brush-border membranes 617–619
SNAITH, S. M. Characterization of jack-bean α-D-mannosidase as a zinc metalloenzyme 83–90
SOMAN, G. & PHILIP, G. The nature of the binding site for aromatic compounds in glycogen phosphorylase *b* 369–371
STENBERG, P., CURTIS, C. G., WING, D., TONG, Y. S., CREDO, R. B., GRAY, A. & LORAND, L. Transamidase kinetics. Amide formation in the enzymic reactions of thiol esters with amines 155–163
STOCKEN, L. A. *see* SMITH, J. A. 523-529

TAKAHASHI, M. & HOFMANN, T. Acyl intermediates in penicillopepsin-catalysed reactions and a discussion of the mechanism of action of pepsins 549–563
TANNER, M. J. A. *see* JENKINS, R. E. 393–399
TATE, W. P. & PETERSEN, G. B. Stability of pyrimidine oligodeoxyribonucleotides released during degradation of deoxyribonucleic acid with formic acid–diphenylamine reagent 439–445
THATCHER, D. R. The partial amino acid sequence of the extracellular β-lactamase I of *Bacillus cereus* 569/H 313–326
THOMAS, C. *see* BRAY, D. 221–228
THORNHILL, D. P. Separation of a series of chromophores and fluorophores present in elastin 215–219
TIPPING, E. *see* JONES, M. N. 229–234
TOMLINSON, G. *see* WASYLISHEN, R. E. 605–607
TONG, Y. S. *see* STENBERG, P. 155–163
TYLER, D. D. Polarographic assay and intracellular distribution of superoxide dismutase in rat liver 493–504

VAN DEN BERGHE, G. *see* LEDERER, B. 23–35
VAN HOOF, F. *see* LEDERER, B. 23–35

WAHEED, A. & SALAHUDDIN, A. Isolation and characterization of a variant of ovomucoid 139–144
WALKER, E. J., RALSTON, G. B. & DARVEY, I. G. An allosteric model for ribonuclease 425–433
WÄLTI, M. *see* HOPE, D. B. 377–379
WASYLISHEN, R. E. & TOMLINSON, G. pH-dependence of ^{13}C chemical shifts and $^{13}C,H$ coupling constants in imidazole and L-histidine 605–607
WATERS, D. *see* HALDAR, D. 621–623
WEBB, T. E. *see* MCNAMARA, D. J. 193–197
WELLING, G. W., GROEN, G. & BEINTEMA, J. J. The amino acid sequence of dromedary pancreatic ribonuclease 505–511

WHISH, W. J. D. *see* BRIGHTWELL, M. D. 119–129
WILLIAMS, J. *see* KINGSTON, I. B. 463–472
WILLIAMSON, D. G *see* HASNAIN, S 457–461
WILSON, M. T., GREENWOOD, C., BRUNORI, M. & ANTONINI, E. Kinetic studies on the reaction between cytochrome *c* oxidase and ferrocytochrome *c* 145–153
WILSON, M. T. *see also* MOORE, T. A. 335–341
WING, D. *see* STENBERG, P. 155–163
WINZOR, D. J. *see* BAGHURST, P. A. 575–583; HOPE, D. B. 377–379
WITH, T. K. Decarboxylation of uroporphyrin by heating at atmospheric pressure 249–251
WOLF, H. U. *see* PFLEGER, H. 359–361
WRIGHT, J. & HECKELS, J. E. The teichuronic acid of cell walls of *Bacillus subtilis* W23 grown in a chemostat under phosphate limitation 187–189

Index of Subjects

Acacia farnesiana seedlings, purification and properties of *S*-alkyl-L-cysteine lyase from (Mazelis, M. & Creveling, R. K.) 485–491
Acetaldehyde, dependence on pH and temperature of the reactions catalysed by yeast alcohol dehydrogenase with ethanol, butyraldehyde and, as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311
Acetamidination, preparation of a stable and soluble derivative of trypsin by, with methyl acetimidate (Nureddin, A. & Inagami, T.) 71–81
Acetate, selective inhibition of the biosynthesis of cholesterol from, by cell-free preparations from rat liver by using inhibitors of cytoplasmic acetoacetyl-coenzyme A thiolase (Bloxham, D. P.) 531–539
Acetoacetyl-coenzyme A thiolase, cytoplasmic, selective inhibition of the biosynthesis of cholesterol by cell-free preparations from rat liver by using inhibitors of (Bloxham, D. P.) 531–539
Acetylcholinesterase, brain, mouse, adult, analysis of the different forms of (Adamson, E. D., Ayers, S. E., Deussen, Z. A. & Graham, C. F.) 205–214
N-Acetyltransferases, microsomal, liver and kidney, rat, acetylation of *S*-substituted cysteine derivatives by (Green, R. M. & Elce, J. S.) 283–289
Acid proteinase, *see* Proteinase, acid
Actin, content of, in cultured chick skin fibroblasts (Bray, D. & Thomas, C.) 221–228
Acyl intermediates in transpeptidation reactions catalysed by penicillopepsin and a discussion of the mechanism of action of pepsins (Takahashi, M. & Hofmann, T.) 549–563
Adenosine diphosphate ribose, covalently bound, chemical and metabolic properties of rat liver nuclear proteins containing (Smith, J. A. & Stocken, L. A.) 523–529
Adenosine triphosphatase, calcium ion-sensitive, high-affinity, membrane-bound, erythrocyte, human, activation of, by bivalent metal ions (Pfleger, H. & Wolf, H. U.) 359–361
Adrenal gland, mouse, subcellular localization and properties of C_{19} steroid 5β-reductase from (Collins, W. & Cameron, E. H. D.) 165–174
D-Alanine carboxypeptidase, purification of, from *Escherichia coli* B by affinity chromatography on penicillin–Sepharose (Gorecki, M., Bar-Eli, A., Burstein, Y., Patchornik, A. & Chain, E. B.) 131–137
Albumin, serum, human, chemical structure of two fragments of, and their location in the albumin molecule (Bellon, F. & Lapresle, C.) 585–592
Albumin, serum, ox, interaction between surface-active agents and (Jones, M. N., Skinner, H. A. & Tipping, E.) 229–234
Albumin, serum, ox, quantitative interpretation of the concentration-dependent migration of, and other reversibly polymerizing solutes in gel chromatography (Baghurst, P. A., Nichol, L. W., Ogston, A. G. & Winzor, D. J.) 575–583
Alcohol dehydrogenase, yeast, dependence on pH and temperature of the reactions catalysed by, with ethanol, acetaldehyde and butyraldehyde as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311
Alcohol dehydrogenase, yeast, kinetics of the oxidation of butan-1-ol and propan-2-ol by oxidized nicotinamide–adenine dinucleotide catalysed by (Dickenson, C. J. & Dickinson, F. M.) 541–547
Alkaline phosphatase, *see* Phosphatase, alkaline
S-Alkyl-L-cysteine lyase, purification and properties of, from *Acacia farnesiana* (Mazelis, M. & Creveling, R. K.) 485–491
Alk-3-ynoyl-coenzyme A esters, inhibition by, of the biosynthesis of cholesterol by cell-free preparations from rat liver (Bloxham, D. P.) 531–539
2-Allyl-2-isopropylacetamide, effect of, on the biosynthesis of nuclear ribonucleic acid in rat liver (Sardana, M. K., Satyanarayana Rao, M. R. & Padmanaban, G.) 185–186
Amides, formation of, in the reactions of thiol esters with amines catalysed by transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Amines, formation of amides in the reactions of thiol esters with, catalysed by transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Amino acid sequence of a carbohydrate-containing fragment of chicken ovotransferrin (Kingston, I. B. & Williams, J.) 463–472
Amino acid sequence of dromedary pancreatic ribonuclease (Welling, G. W., Groen, G. & Beintema, J. J.) 505–511
Amino acid sequence of plastocyanin from spinach leaves (Scawen, M. D., Ramshaw, J. A. M. & Boulter, D.) 343–349
Amino acid sequence, partial, of the extracellular β-lactamase I of *Bacillus cereus* 569/H (Thatcher, D. R.) 313–326
Amino acid sequence, *C*-terminal, of human serum albumin (Bellon, F. & Lapresle, C.) 585–592
Amino acid sequences, comparison of, of the variable domains of two homogeneous rabbit anti-pneumococcal antibodies specific for type III pneumococcal polysaccharide (Jaton, J.-C.) 235–247
Amino acid sequences, identification of thiohydantoin derivatives of amino acids directly by thin-layer chromotography and indirectly by gas–liquid chromatography and its use in the determination of, of proteins (Rangarajan, M. & Darbre, A.) 435–438
Amino acid sequences of atypical cytochromes *c* from *Euglena gracilis* and *Crithidia oncopelti* (Pettigrew, G. W., Leaver, J. L., Meyer, T. E. & Ryle, A. P.) 291–302
Amino acid sequences of the pyridoxal 5′-phosphate-binding peptides obtained by chymotryptic digestion of sheep liver cytoplasmic and mitochondrial aspartate aminotransferases (Campos-Cavieres, M. & Milstein, C. P.) 275–281
Amino acids, ethylenediamine-*NN*′-tetra-acetate-dependent stimulation by, of the inactivation of mouse ovary alkaline phosphatase (Bramley, T. A.) 259–265
Amino acids, identification of thiohydantoin derivatives of, directly by thin-layer chromatography and indirectly by gas–liquid chromatography after hydrolysis (Rangarajan, M. & Darbre, A.) 435–438

Aminoacyl-transfer ribonucleic acid, preparation of, attached to chick-embryo skeletal-muscle polyribosomes (Nwagwu, M.) 473–477
Amino groups, preparation of stable and soluble derivarives by chemical modification of guanidino groups and, of trypsin (Nureddin, A. & Inagami, T.) 71–81
Ammonium acetate, use of, in combination with ethanol in the precipitation of ribonucleic acid (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Androst-4-ene-3,17-dione, subcellular localization and properties of mouse adrenal-gland C_{19} steroid 5β-reductase catalysing the reduction of (Collins, W. & Cameron, E. H. D.) 165–174
Aniline, nature of the binding site for, and other aromatic compounds in rabbit skeletal-muscle glycogen phosphorylase *b* (Soman, G. & Philip, G.) 369–371
Antibodies, anti-pneumococcal, rabbit, homogeneous, two, comparison of the amino acid sequences of the variable domains of, specific for type III pneumococcal polysaccharide (Jaton, J.-C.) 235–247
Aspartate aminotransferases, cytoplasmic and mitochondrial, liver, sheep, amino acid sequences of the pyridoxal 5′-phosphate-binding peptides obtained by chymotryptic digestion of (Campos-Cavieres, M. & Milstein, C. P.) 275–281
Aspergillus niger, occurrence of a phosphorylated glycosphingolipid in (Brennan, P. J. & Roe, J.) 179–180
Aspergillus oryzae, purification and properties of acid proteinase from, and the formation of π-chymotrypsin (Davidson, R., Gertler, A. & Hofmann, T.) 45–53

Bacillus cereus 569/H, partial amino acid sequence of the extracellular β-lactamase I of (Thatcher, D. R.) 313–326
Bacillus subtilis W23, characterization of the teichuronic acid of the cell walls of, grown in the presence of limiting concentrations of phosphate in a chemostat (Wright, J. & Heckels, J. E.) 187–189
Bacteriophage f1, stability of pyrimidine oligodeoxyribonucleotides released during the degradation of deoxyribonucleic acid from, with formic acid–diphenylamine reagent (Tate, W. P. & Petersen, G. B.) 439–445
Barley (*Hordeum distichum*) embryos and roots, properties and occurrence of three different forms of glutamate decarboxylase from (Inatomi, K. & Slaughter, J. C.) 479–484
Bean, jack (*Canavalia ensiformis*), characterization of the α-D-mannosidase of, as a metalloenzyme containing zinc ions (Snaith, S. M.) 83–90
S-Benzylcysteine, acetylation of, and other *S*-substituted cysteine derivatives by rat liver and kidney microsomal cysteine *N*-acetyltransferases (Green, R. M. & Elce, J. S.) 283–289
Bilirubin, interaction of, with reconstituted fibrils of rat tail tendon collagen (Kapoor, C. L.) 199–203
Blood platelets, *see* Platelets
Blowfly (*Calliphora erythrocephala*), hydroxylation of tyrosine by a phenol oxidase from third-instar larvae of (Pau, R. N. & Kelly, C.) 565–573
Brain, mouse, adult, analysis of the different forms of acetylcholinesterase from (Adamson, E. D., Ayers, S. E., Deussen, Z. A. & Graham, C. F.) 205–214
Brain, rat, use of ammonium acetate in combination with ethanol in the precipitation of ribonucleic acid from (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Brush border, small-intestine, pig, glucose- and phlorrhizin-protected thiol groups in the membranes of (Smith, M. W., Ferguson, D. R. & Burton, K. A.) 617–619
Butan-1-ol, kinetics of the oxidation of propan-2-ol and, by oxidized nicotinamide–adenine dinucleotide catalysed by yeast alcohol dehydrogenase (Dickenson, C. J. & Dickinson, F. M.) 541–547
Butyraldehyde, dependence on pH and temperature of the reactions catalysed by yeast alcohol dehydrogenase with ethanol, acetaldehyde and, as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311

Calcium ions, activation by, and other bivalent metal ions of the membrane-bound high-affinity calcium ion-sensitive adenosine triphosphatase of human erythrocytes (Pfleger, H. & Wolf, H. U.) 359–361
Calcium ions, hydrodynamic changes accompanying the loss of manganese ions and, from concanavalin A (Sawyer, W. H., Dabscheck, R., Nott, P. R., Selinger, B. K. & Kuntz, I. D.) 613–615
Calliphora erythrocephala, *see* Blowfly
Camelus dromedarius, *see* Dromedary
Canavalia ensiformis, *see* Bean, jack
Carbon isotope (^{13}C), pH-dependence of chemical shifts due to, and of carbon isotope (^{13}C)–hydrogen coupling constants in imidazole and L-histidine (Wasylishen, R. E. & Tomlinson, G.) 605–607
Carbon monoxide, binding of, and other ligands to horse heart ferrocytochrome *c* at high pH values (Moore, T. A., Greenwood, C. & Wilson, M. T.) 335–341
Carbonic anhydrases, erythrocyte, human and ox, effects of zinc ions on the activity and fluorescence of holoenzymes of (Hesketh, T. R. & Flanagan, M. T.) 37–43
Cartilage, scapula, pig, properties of inorganic pyrophosphatase from (Felix, R. & Fleisch, H.) 111–118
Cartilage, scapula, pig, purification and heterogeneity of inorganic pyrophosphatase from (Felix, R. & Fleisch, H.) 103–109
Cell-cycle, activities of poly(adenosine diphosphate ribose) polymerase of *Physarum polycephalum* at different stages of (Brightwell, M. D., Leech, C. E., O'Farrell, M. K., Whish, W. J. D. & Shall, S.) 119–129
Cell walls, *Bacillus subtilis* W23, characterization of the teichuronic acid of, of the organisms grown in the presence of limiting concentrations of phosphate in a chemostat (Wright, J. & Heckels, J. E.) 187–189
Cells, L, simple method for the characterization of ribonucleic acid from (Haldar, D., Waters, B. K. & Freeman, K. B.) 621–623
Chick content of actin in cultured skin fibroblasts from (Bray, D. & Thomas, C.) 221–228
Chick embryo, preparation of aminoacyl-transfer ribonucleic acid attached to polyribosomes from skeletal muscle of (Nwagwu, M.) 473–477
Chicken, amino acid sequence of a carbohydrate-containing fragment of ovotransferrin from (Kingston, I. B. & Williams, J.) 463–472
Chicken, isolation and characterization of a variant of ovomucoid from eggs of (Waheed, A. & Salahuddin, A.) 139–144

Chicken, isolation of an unreduced soluble ovomucin and its relevance to the composition and subunit structure of egg-white β-ovomucin from (Robinson, D. S. & Monsey, J. B.) 55–62
Chicken, kinetics of the binding of iron and copper to ovotransferrin from (Phelps, C. F. & Antonini, E.) 385–391
Chloride, potassium, activation and stabilization of *Halobacterium cutirubrum* citrate synthase, by, and other salts (Higa, A. & Cazzulo, J. J.) 267–274
Cholesterol, selective inhibition of the biosynthesis of, by cell-free preparations from rat liver by using inhibitors of cytoplasmic acetoacetyl-coenzyme A thiolase (Bloxham, D. P.) 531–539
Chromatography, gel, quantitative interpretation of the concentration-dependent migration of reversibly polymerizing solutes in (Baghurst, P. A., Nichol, L. W., Ogston, A. G. & Winzor, D. J.) 575–583
Chromophores, separation of a series of fluorophores and, present in ox ligamentum nuchae elastin (Thornhill, D. P.) 215–219
α-Chymotrypsin, properties of the histidine residues of, after the binding of indole and their implications for the activation process and catalytic mechanism of the enzyme (Cruickshank, W. H. & Kaplan, H.) 411–416
π-Chymotrypsin, purification and properties of acid proteinase from *Aspergillus oryzae* and the formation of (Davidson, R., Gertler, A. & Hofmann, T.) 45–53
Citrate synthase, purification and properties of, from *Halobacterium cutirubrum* (Higa, A. & Cazzulo, J. J.) 267–274
Clotting factor XIII, plasma, human, formation of amides in the reactions of thiol esters with amines catalysed by, and other transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Coagulation factor, *see* Clotting Factor
Collagen, tendon, tail, rat, interaction of bilirubin with reconstituted fibrils of (Kapoor, C. L.) 199–203
Concanavalin A, hydrodynamic changes accompanying the loss of metal ions from (Sawyer, W. H., Dabscheck, R., Nott, P. R., Selinger, B. K. & Kuntz, I. D.) 613–615
Copper, kinetics of the binding of iron and, to chicken ovotransferrin (Phelps, C. F. & Antonini, E.) 385–391
Corrinoids, nomenclature of (IUPAC–IUB Commission on Biochemical Nomenclature) 1–10
Crithidia oncopelti, purification, properties and amino acid sequences of atypical cytochromes *c* from *Euglena gracilis* and (Pettigrew, G. W., Leaver, J. L., Meyer, T. E. & Ryle, A. P.) 291–302
Cyanide, binding of, and other ligands to horse heart ferrocytochrome *c* at high pH values (Moore, T. A., Greenwood, C. & Wilson, M. T.) 335–341
Cyanidium caldarium, physical-chemical properties of C-phycocyanin from (Kao, O. H. W., Edwards, M. R. & Berns, D. S.) 63–70
Cyclic cytidine 2′:3′monophosphate, *see* Cytidine 2′:3′-cyclic monophosphate
Cysteine, acetylation of *S*-substituted derivatives of, by rat liver and kidney microsomal cysteine *N*-acetyltransferases (Green, R. M. & Elce, J. S.) 283–289
Cysteine *N*-acetyltransferases, microsomal, liver and kidney, rat, acetylation of *S*-substituted cysteine derivatives by (Green, R. M. & Elce, J. S.) 283–289
Cytidine 2′:3′-cyclic monophosphate, allosteric model for ox pancreatic ribonuclease catalysing the hydrolysis of (Walker, E. J., Ralston, G. B. & Darvey, I. G.) 425–433
Cytochrome *c*, ferro-, heart, horse, binding of ligands to, at high pH values (Moore, T. A., Greenwood, C. & Wilson, M. T.) 335–341
Cytochrome *c*, ferro-, kinetic studies on the reaction between cytochrome *c* oxidase and (Wilson, M. T., Greenwood, C., Brunori, M. & Antonini, E.) 145–153
Cytochrome *c*, guanidinated and native, comparison of the kinetic and spectral properties of (Brittain, T. & Greenwood, C.) 175–177
Cytochrome *c*, heart, horse, preparation and properties of, modified by reaction with 2-hydroxy-5-nitrobenzyl bromide (Brittain, T. & Greenwood, C.) 253–258
Cytochrome *c* oxidase, kinetic studies on the reaction between, and ferrocytochrome *c* (Wilson, M. T., Greenwood, C., Brunori, M. & Antonini, E.) 145–153
Cytochromes *c*, atypical, purification, properties and amino acid sequences of, from *Euglena gracilis* and *Crithidia oncopelti* (Pettigrew, G. W., Leaver, J. L., Meyer, T. E. & Ryle, A. P.) 291–302
Cytosol, adrenal-gland, mouse, localization in, and properties of C_{19} steroid 5β-reductase from (Collins, W. & Cameron, E. H. D.) 165–174
Cytosol, liver, rat, polarographic assay of the activity of superoxide dismutase and its subcellular location in, and mitochondria (Tyler, D. D.) 493–504
Cytosol, liver, sheep, amino acid sequences of the pyridoxal 5′-phosphate-binding peptides obtained by chymotryptic digestion of the aspartate aminotransferases of, and mitochondria (Campos-Cavieres, M. & Milstein, C. P.) 275–281

n-Decyl phosphate, potassium, interaction between ox serum albumin and, and other surface-active agents (Jones, M. N., Skinner, H. A. & Tipping, E.) 229–234
Deoxyribonucleic acid, bacteriophage f1, stability of pyrimidine oligodeoxyribonucleotides released during the degradation of, with formic acid–diphenylamine reagent (Tate, W. P. & Petersen, G. B.) 439–445
Deoxyribonucleotides, oligo-, pyrimidine, stability of, released during the degradation of bacteriophage f1 deoxyribonucleic acid with formic acid–diphenylamine reagent (Tate, W. P. & Petersen, G. B.) 439–445
3,4-Dihydroxyphenylalanine, oxidation of, by phenol oxidases from third-instar larvae of the blowfly *Calliphora erythrocephala* (Pau, R. N. & Kelly, C.) 565–573
Diphenylamine – formic acid reagent, stability of pyrimidine oligodeoxyribonucleotides released during the degradation of bacteriophage f1 deoxyribonucleic acid with (Tate, W. P. & Petersen, G. B.) 439–445
Diphosphonates, inhibition by, of the activity of pig scapula-cartilage inorganic pyrophosphatase (Felix, R. & Fleisch, H.) 111–118
L-Djenkolate, activity of *Acacia farnesiana* *S*-alkyl-L-cysteine lyase towards (Mazelis, M. & Creveling, R. K.) 485–491
n-Dodecyltrimethylammonium bromide, interaction between ox serum albumin and, and other surface-active agents (Jones, M. N., Skinner, H. A. & Tipping, E.) 229–234

Dopa, *see* 3,4-Dihydroxyphenylalanine
Dromedary (*Camelus dromedarius*), amino acid sequence of pancreatic ribonuclease from (Welling, G. W., Groen, G. & Beintema, J. J.) 505–511
Duodenum, pig, purification of enterokinase from, by affinity chromatography (Grant, D. A. W. & Hermon-Taylor, J.) 363–366

Egg, chicken, isolation and characterization of a variant of ovomucoid from (Waheed, A. & Salahuddin, A.) 139–144
Egg-white, chicken, isolation of an unreduced soluble ovomucin and its relevance to the composition and subunit structure of β-ovomucin from (Robinson, D. S. & Monsey, J. B.) 55–62
Elastin, ligamentum nuchae, ox, separation of a series of chromophores and fluorophores present in (Thornhill, D. P.) 215–219
Embryos, barley, properties and occurrence of three different forms of glutamate decarboxylase from, and roots (Inatomi, K. & Slaughter, J. C.) 479–484
Enterokinase, purification of, from pig duodenum by affinity chromatography (Grant, D. A. W. & Hermon-Taylor, J.) 363–366
Erythrocytes, human, activation by bivalent metal ions of the membrane-bound high-affinity calcium ion-sensitive adenosine triphosphatase of (Pfleger, H. & Wolf, H. U.) 359–361
Erythrocytes, human and ox, effects of zinc ions on the activity and fluorescence of holoenzymes of carbonic anhydrases from (Hesketh, T. R. & Flanagan, M. T.) 37–43
Erythrocytes, human, evidence that the major protein of the membrane of, has an S-shaped structure traversing the membrane twice and containing a duplicate set of sites (Jenkins, R. E. & Tanner, M. J. A.) 393–399
Erythrocytes, human, properties of glycogen phosphorylase and its converter enzymes in haemolysates of, from normal subjects and from patients with type VI glycogen-storage disease (Lederer, B., Van Hoof, F., Van den Berghe, G. & Hers, H.-G.) 23–35
Escherichia coli B, purification of D-alanine carboxypeptidase from, by affinity chromatography on penicillin–Sepharose (Gorecki, M., Bar-Eli, A., Burstein, Y., Patchornik, A. & Chain, E. B.) 131–137
Escherichia coli, mechanism of the inhibition by 8-hydroxyquinoline and Iomofungin of the biosynthesis of ribonucleic acid by ribonucleic acid polymerase from (Fraser, R. S. S. & Creanor, J.) 401–410
Estradiol, *see* Oestradiol
Ethanol, dependence on pH and temperature of the reactions catalysed by yeast alcohol dehydrogenase with acetaldehyde, butyraldehyde and, as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311
Ethanol, use of ammonium acetate in combination with, in the precipitation of ribonucleic acid (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Ethylenediamine-*NN'*-tetra-acetate, dependence on, of the amino acid-stimulated inactivation of mouse ovary alkaline phosphatase (Bramley, T. A.) 259–265
Euglena gracilis, purification, properties and amino acid sequences of atypical cytochromes *c* from *Crithidia oncopelti* and (Pettigrew, G. W., Leaver, J. L., Meyer, T. E. & Ryle, A. P.) 291–302

Ferrocytochrome *c*, heart, horse, binding of ligands to, at high pH values (Moore, T. A., Greenwood, C. & Wilson, M. T.) 335–341
Ferrocytochrome *c*, kinetic studies on the reaction between cytochrome *c* oxidase and (Wilson, M. T., Greenwood, C., Brunori, M. & Antonini, E.) 145–153
Fibroblasts, skin, chick, cultured, content of actin in (Bray, D. & Thomas, C.) 221–228
Fluorophores, separation of a series of chromophores and, present in ox ligamentum nuchae elastin (Thornhill, D. P.) 215–219
Formic acid–diphenylamine reagent, stability of pyrimidine oligodeoxyribonucleotides released during the degradation of bacteriophage f1 deoxyribonucleic acid with (Tate, W. P. & Petersen, G. B.) 439–445

Gel chromatography, quantitative interpretation of the concentration-dependent migration of reversibly polymerizing solutes in (Baghurst, P. A., Nichol, L. W., Ogston, A. G. & Winzor, D. J.) 575–583
Glucose 6-phosphate dehydrogenase, preparation of nylon-tube-supported hexokinase and, and the use of the co-immobilized enzymes in the automated determination of glucose (Morris, D. L., Campbell, J. & Hornby, W. E.) 593–603
Glucose phosphate isomerase, sweet-potato-tuber, nature of the multiple forms of (Phillips, T. L., Porter, D. W. & Gracy, R. W.) 381–384
Glucose, preparation of nylon-tube-supported hexokinase and glucose 6-phosphate dehydrogenase and the use of the co-immobilized enzymes in the automated determination of (Morris, D. L., Campbell, J. & Hornby, W. E.) 593–603
Glucose, thiol groups protected by phlorrhizin and, in pig small-intestine brush-border membranes (Smith, M. W., Ferguson, D. R. & Burton, K. A.) 617–619
Glutamate decarboxylase, properties and occurrence of three different forms of, from barley embryos and roots (Inatomi, K. & Slaughter, J. C.) 479–484
Glutamate dehydrogenase, liver, ox, equilibrium position of the reaction of, with pyridoxal 5′-phosphate (Chen, S.-S. & Engel, P. C.) 351–358
Glutamate dehydrogenase, *Neurospora crassa*, deactivating conformational change induced by reduced nicotinamide–adenine dinucleotide phosphate in (Gore, M. G. & Iwatsubo, M.) 181–184
γ-Glutamyltransferase, liver, guinea-pig, formation of amides in the reactions of thiol esters with amines catalysed by, and other transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Glutathione *S*-aryltransferase, purification and characterization of two forms of, from rat liver (Askelöf, P., Guthenberg, C., Jakobson, I. & Mannervik, B.) 513–522
Glutathione, reduced, inhibition by *S*-substituted derivatives of, of the activity of rat liver glutathione *S*-aryltransferase (Askelöf, P., Guthenberg, C., Jakobson, I. & Mannervik, B.) 513–522
Glycine, ethylenediamine-*NN'*-tetra-acetate-dependent stimulation by, of the inactivation of mouse ovary alkaline phosphatase (Bramley, T. A.) 259–265

Glycogen phosphorylase, properties of, and its converter enzymes in haemolysates of erythrocytes from normal human subjects and from patients with type VI glycogen-storage disease (Lederer, B., Van Hoof, F., Van den Berghe, G. & Hers, H.-G.) 23–35
Glycogen phosphorylase *b*, skeletal-muscle, rabbit, kinetic method to establish the specificity of spin labelling of, and other macromolecules (Griffiths, J. R., Price, N. C. & Radda, G. K.) 609–612
Glycogen phosphorylase *b*, skeletal-muscle, rabbit, nature of the binding site for aromatic compounds in (Soman, G. & Philip, G.) 369–371
Glycogen-storage disease, type VI, properties of glycogen phosphorylase and its converter enzymes in haemolysates of erythrocytes from normal human subjects and from patients with (Lederer, B., Van Hoof, F., Van den Berghe, G. & Hers, H.-G.) 23–35
Glycosphingolipid, phosphorylated, occurrence of, in *Aspergillus niger* (Brennan, P. J. & Roe, J.) 179–180
Guanidination, comparison of the kinetic and spectral properties of native cytochrome *c* and of cytochrome *c* after, by reaction with *O*-methylisourea (Brittain, T. & Greenwood, C.) 175–177
Guanidino groups, preparation of stable and soluble derivatives by chemical modification of amino groups and, of trypsin (Nureddin, A. & Inagami, T.) 71–81

Halobacterium cutirubrum, purification and properties of citrate synthase from (Higa, A. & Cazzulo, J. J.) 267–274
Heart, horse, binding of ligands to ferrocytochrome *c* from, at high pH values (Moore, T. A., Greenwood, C. & Wilson, M. T.) 335–341
Heart, horse, preparation and properties of cytochrome *c* from, modified by reaction with 2-hydroxy-5-nitrobenzyl bromide (Brittain, T. & Greenwood, C.) 253–258
Hen, *see* Chicken
Hexokinase, preparation of nylon-tube-supported glucose 6-phosphate dehydrogenase and and the use of the co-immobilized enzymes in the automated determination of glucose (Morris, D. L., Campbell, J. & Hornby, W. E.) 593–603
L-Histidine, pH-dependence of ^{13}C chemical shifts and $^{13}C,H$ coupling constants in imidazole and (Wasylishen, R. E. & Tomlinson, G.) 605–607
L-Histidine–2-oxoglutarate aminotransferase, purification and properties of, from *Pseudomonas testosteroni* N.C.I.B. 10808 (Hacking, A. J. & Hassall, H.) 327–334
Histidine residues, properties of, of α-chymotrypsin after the binding of indole and their implications for the activation process and catalytic mechanism of the enzyme (Cruickshank, W. H. & Kaplan, H.) 411–416
Histone F1, liver, rat, chemical and metabolic properties of adenosine diphosphate ribose derivatives of, and other nuclear proteins (Smith, J. A. & Stocken, L.A.) 523–529
Hordeum distichum, *see* Barley
17α-Hydroxy steroid dehydrogenase, soluble, purification of multiple forms of, from rabbit liver (Hasnain, S. & Williamson, D. G.) 457–461
2-Hydroxy-5-nitrobenzyl bromide, preparation and properties of horse heart cytochrome *c* modified by reaction with (Brittain, T. & Greenwood, C.) 253–258
8-Hydroxyquinoline, mechanism of the inhibition by lomofungin and, of the biosynthesis of ribonucleic acid by *Escherichia coli* ribonucleic acid polymerase (Fraser, R. S. S. & Creanor, J.) 401–410

Imidazole, pH-dependence of ^{13}C chemical shifts and $^{13}C,H$ coupling constants in L-histidine and (Wasylishen, R. E. & Tomlinson, G.) 605–607
Imidazolylpyruvate, formation of, in the reaction catalysed by *Pseudomonas testosteroni* N.C.I.B. 10808 L-histidine–2-oxoglutarate aminotransferase (Hacking, A. J. & Hassall, H.) 327–334
Immunoglobulins, anti-pneumococcal, rabbit, homogeneous, two, comparison of the amino acid sequences of the variable domains of, specific for type III pneumococcal polysaccharide (Jaton, J.-C.) 235–247
Impomea batatas, *see* Sweet potato
Indole, properties of the histidine residues of α-chymotrypsin after the binding of, and their implications for the activation process and catalytic mechanism of the enzyme (Cruickshank, W. H. & Kaplan, H.) 411–416
Inorganic pyrophosphatase, *see* Pyrophosphatase, inorganic
Intestine, small, pig, glucose- and phlorrhizin-protected thiol groups in brush-border membranes of (Smith, M. W., Ferguson, D. R. & Burton, K. A.) 617–619
Intestine, small, pig, purification of enterokinase from, by affinity chromatography (Grant, D. A. W. & Hermon-Taylor, J.) 363–366
Iron, kinetics of the binding of copper and, to chicken ovotransferrin (Phelps, C. F. & Antonini, E.) 385–391
Isoprenoid side chains, nomenclature of quinones with (IUPAC–IUB Commission on Biochemical Nomenclature) 15–21

Jack bean, *see* Bean, jack

Kidney, rat, acetylation of *S*-substituted cysteine derivatives by microsomal cysteine *N*-acetyltransferases from, and liver (Green, R. M. & Elce, J. S.) 283–289

L cells, simple method for the characterization of ribonucleic acid from (Haldar, D., Waters, B. K. & Freeman, K. B.) 621–623
β-Lactamase I, *Bacillus cereus* 569/H, extracellular, partial amino acid sequence of (Thatcher, D. R.) 313–326
Leaves, spinach, amino acid sequence of plastocyanin from (Scawen, M. D., Ramshaw, J. A. M. & Boulter, D.) 343–349
Ligamentum nuchae, ox, separation of a series of chromophores and fluorophores present in elastin from (Thornhill, D. P.) 215–219
Liver, guinea-pig, formation of amides in the reactions of thiol esters with amines catalysed by γ-glutamyltransferase from, and other transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Liver, mouse, use of ammonium acetate in combination with ethanol in the precipitation of ribonucleic acid from (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Liver, ox, equilibrium position of the reaction of glutamate dehydrogenase from, with pyridoxal 5′-phosphate (Chen, S.-S. & Engel, P. C.) 351–358

Liver, rabbit, purification of multiple forms of soluble 17α-hydroxy steroid dehydrogenase from (Hasnain, S. & Williamson, D. G.) 457–461
Liver, rat, acetylation of *S*-substituted cysteine derivatives by microsomal cysteine *N*-acetyltransferases from, and kidney (Green, R. M. & Elce, J. S.) 283–289
Liver, rat, biosynthesis of ribonucleic acid in nuclei isolated from, under conditions supporting normal nuclear processing and transport of ribosomal ribonucleic acid and messenger ribonucleic acid (McNamara, D. J., Racevskis, J., Schumm, D. E. & Webb, T. E.) 193–197
Liver, rat, chemical and metabolic properties of adenosine diphosphate ribose derivatives of nuclear proteins of (Smith, J. A. & Stocken, L. A.) 523–529
Liver, rat, effect of 2-allyl-2-isopropylacetamide on the biosynthesis of nuclear ribonucleic acid in (Sardana, M. K., Satyanarayana Rao, M. R. & Padmanaban, G.) 185–186
Liver, rat, fractionation by chromatography on nucleoprotein–Celite columns of ribonucleic acids as constituents of ribonucleoprotein complexes from (Lichtenstein, A. V., Alechina, R. P. & Shapot, V. S.) 447–456
Liver, rat, polarographic assay of the activity of superoxide dismutase and its intracellular distribution in (Tyler, D. D.) 493–504
Liver, rat, purification and characterization of two forms of glutathione *S*-aryltransferase from (Askelöf, P., Guthenberg, C., Jakobson, I. & Mannervik, B.) 513–522
Liver, rat, selective inhibition of the biosynthesis of cholesterol by cell-free preparations from, by using inhibitors of cytoplasmic acetoacetyl-coenzyme A thiolase (Bloxham, D. P.) 531–539
Liver, sheep, amino acid sequences of the pyridoxal 5′-phosphate-binding peptides obtained by chymotryptic digestion of the cytoplasmic and mitochondrial aspartate aminotransferases of (Campos-Cavieres, M. & Milstein, C. P.) 275–281
Lomofungin, mechanism of the inhibition by 8-hydroxyquinoline and, of the biosynthesis of ribonucleic acid by *Escherichia coli* ribonucleic acid polymerase (Fraser, R. S. S. & Creanor, J.) 401–410
Lymphocytes, human, evidence that the exposed proteins are the distinguishing characteristics of the plasma membranes of, and platelets (Gates, R. E., Phillips, D. R. & Morrison, M.) 373–376

Macromolecules, kinetic method to establish the specificity of spin labelling of (Griffiths, J. R., Price, N. C. & Radda, G. K.) 609–612
Manganese ions, hydrodynamic changes accompanying the loss of calcium ions and, from concanavalin A (Sawyer, W. H., Dabscheck, R., Nott, P. R., Selinger, B. K. & Kuntz, I. D.) 613–615
α-D-Mannosidase, jack-bean, characterization of, as a metalloenzyme containing zinc ions (Snaith, S. M.) 83–90
Membrane, erythrocyte, human, evidence that the major protein of, has an S-shaped structure traversing the membrane twice and containing a duplicate set of sites (Jenkins, R. E. & Tanner, M. J. A.) 393–399
Membrane, milk-fat-globule, ox, nature of the association of xanthine oxidase with (Briley, M. S. & Eisenthal, R.) 417–423
Membranes, brush-border, small-intestine, pig, glucose- and phlorrhizin-protected thiol groups in (Smith, M. W., Ferguson, D. R. & Burton, K. A.) 617–619
Membranes, plasma, lymphocyte and platelet, human, evidence that the exposed proteins are the distinguishing characteristics of (Gates, R. E., Phillips, D. R. & Morrison, M.) 373–376
Messenger ribonucleic acid, *see* Ribonucleic acid, messenger
Metal ions, bivalent, activation by, of the membrane-bound high-affinity calcium ion-sensitive adenosine triphosphatase of human erythrocytes (Pfleger, H. & Wolf, H. U.) 359–361
Metal ions, hydrodynamic changes accompanying the loss of, from concanavalin A (Sawyer, W. H., Dabscheck, R., Nott, P. R., Selinger, B. K. & Kuntz, I. D.) 613–615
Methyl acetimidate, preparation of a stable and soluble derivative of trypsin by reaction with (Nureddin, A. & Inagami, T.) 71–81
O-Methylisourea, comparison of the kinetic and spectral properties of native cytochrome *c* and of cytochrome *c* guanidinated by reaction with (Brittain, T. & Greenwood, C.) 175–177
Microsomal fraction, liver and kidney, rat, acetylation of *S*-substituted cysteine derivatives by cysteine *N*-acetyltransferases from (Green, R. M. & Elce, J. S.) 283–289
Milk-fat globule, ox, nature of the association of xanthine oxidase with the membrane of (Briley, M. S. & Eisenthal, R.) 417–423
Mitochondria, L-cell, simple method for the characterization of the ribonucleic acid of (Haldar, D., Waters, B. K. & Freeman, K. B.) 621–623
Mitochondria, liver, rat, polarographic assay of the activity of superoxide dismutase and its subcellular location in, and cytosol (Tyler, D. D.) 493–504
Mitochondria, liver, sheep, amino acid sequences of the pyridoxal 5′-phosphate-binding peptides obtained by chymotryptic digestion of the aspartate aminotransferases of, and cytosol (Campos-Cavieres, M. & Milstein, C. P.) 275–281
Muscle, skeletal, chick-embryo, preparation of aminoacyl-transfer ribonucleic acid attached to polyribosomes from (Nwagwu, M.) 473–477
Muscle, skeletal, rabbit, kinetic method to establish the specificity of spin labelling of glycogen phosphorylase *b* from, and other macromolecules (Griffiths, J. R., Price, N. C. & Radda, G. K.) 609–612
Muscle, skeletal, rabbit, nature of the binding site for aromatic compounds in glycogen phosphorylase *b* from (Soman, H. & Philip, G.) 369–371

Neurohypophysis, ox, co-operative binding of oxytocin to neurophysin II from (Hope, D. B., Wälti, M. & Winzor D. J.) 377–379
Neurophysin II, posterior-pituitary-gland, ox, co-operative binding of oxytocin to (Hope, D. B., Wälti, M. & Winzor, D. J.) 377–379
Neurospora crassa, deactivating conformational change induced by reduced nicotinamide–adenine dinucleotide phosphate in glutamate dehydrogenase from (Gore, M. G. & Iwatsubo, M.) 181–184
Nicotinamide–adenine dinucleotide, oxidized, kinetics of the oxidation of butan-1-ol and propan-2-ol by, catalysed by yeast alcohol dehydrogenase (Dickenson, C. J. & Dickinson, F. M.) 541–547

Nicotinamide–adenine dinucleotide phosphate, reduced, deactivating conformational change induced by, in *Neurospora crassa* glutamate dehydrogenase (Gore, M. G. & Iwatsubo, M.) 181–184
p-Nitrophenol, nature of the binding site for, and other aromatic compounds in rabbit skeletal-muscle glycogen phosphorylase *b* (Soman, G. & Philip, G.) 369–371
Nuclear ribonucleic acid, *see* Ribonucleic acid, nuclear
Nuclei, liver, rat, chemical and metabolic properties of adenosine diphosphate ribose derivatives of proteins of (Smith, J. A. & Stocken, L. A.) 523–539
Nuclei, liver, rat, isolated, biosynthesis of ribonucleic acid in, under conditions supporting normal nuclear processing and transport of ribosomal ribonucleic acid and messenger ribonucleic acid (McNamara, D. J., Racevskis, J., Schumm, D. E. & Webb, T. E.) 193–197
Nuclei, *Physarum polycephalum*, properties of poly(adenosine diphosphate ribose) polymerase from (Brightwell, M. D., Leech, C. E., O'Farrell, M. K., Whish, W. J. D. & Shall, S.) 119–129
Nuclei, uterus, rabbit, immature, effects of the administration of oestradiol-17β on the activities of ribonucleic acid polymerases of (Borthwick, N. M. & Smellie, R. M. S.) 91–101
Nucleoprotein–Celite, fractionation by chromatography on the columns of, of ribonucleic acids as constituents of rat liver ribonucleoprotein complexes (Lichtenstein, A. V., Alechina, R. P. & Shapot, V. S.) 447–456
Nylon tubes, preparation of hexokinase and glucose 6-phosphate dehydrogenase immobilized on, and the use of the co-immobilized enzymes in the automated determination of glucose (Morris, D. L., Campbell, J. & Hornby, W. E.) 593–603

Oestradiol-17α, activity of multiple forms of rabbit liver soluble 17α-hydroxy steroid dehydrogenase towards, and its 3-glucuronide (Hasnain, S. & Williamson, D. G.) 457–461
Oestradiol-17β, effects of the administration of, on the activities of ribonucleic acid polymerases of immature rabbit uterus (Borthwick, N. M. & Smellie, R. M. S.) 91–101
Oligodeoxyribonucleotides, pyrimidine, stability of, released during the degradation of bacteriophage f1 deoxyribonucleic acid with formic acid–diphenylamine reagent (Tate, W. P. & Petersen, G. B.) 439–445
Ovary, mouse, ethylenediamine-*NN'*-tetra-acetate-dependent amino acid-stimulated inactivation of alkaline phosphatase from (Bramley, T. A.) 259–265
β-Ovomucin, egg-white, chicken, isolation of an unreduced soluble ovomucin and its relevance to the composition and subunit structure of (Robinson, D. S. & Monsey, J. B.) 55–62
Ovomucoid, isolation and characterization of a variant of, from chicken eggs (Waheed, A. & Salahuddin, A.) 139–144
Ovotransferrin, chicken, amino acid sequence of a carbohydrate-containing fragment of (Kingston, I. B. & Williams, J.) 463–472
Ovotransferrin, chicken, kinetics of the binding of iron and copper to (Phelps, C. F. & Antonini, E.) 385–391
Oxytocin, co-operative binding of, to neurophysin II from ox posterior pituitary gland (Hope, D. B., Wälti, M. & Winzor, D. J.) 377–379

Pancreas, dromedary, amino acid sequence of ribonuclease from (Welling, G. W., Groen, G. & Beintema, J. J.) 505–511
Pancreas, ox, allosteric model for ribonuclease from (Walker, E. J., Ralston, G. B. & Darvey, I. G.) 425–433
Penicillin, purification of D-alanine carboxypeptidase from *Escherichia coli* B by affinity chromatography on, attached to Sepharose (Gorecki, M., Bar-Eli, A., Burstein, Y., Patchornik, A. & Chain, E. B.) 131–137
Penicillinase (β-lactamase I), *Bacillus cereus* 569/H, extracellular, partial amino acid sequence of (Thatcher, D. R.) 313–326
Penicillium janthinellum, acyl intermediates in transpeptidation reactions catalysed by penicillopepsin from, and a discussion of the mechanism of action of pepsins (Takahashi, M. & Hofmann, T.) 459–563
Penicillopepsin, acyl intermediates in transpeptidation reactions catalysed by, and a discussion of the mechanism of action of pepsins (Takahashi, M. & Hofmann, T.) 549–563
Pepsins, acyl intermediates in transpeptidation reactions catalysed by penicillopepsin and a discussion of the mechanism of action of (Takahashi, M. & Hofmann, T.) 549–563
pH, binding of ligands to horse heart ferrocytochrome *c* at high values of (Moore, T. A., Greenwood, C. & Wilson, M. T.) 335–341
pH, dependence on, of ^{13}C chemical shifts and $^{13}C,H$ coupling constants in imidazole and L-histidine (Wasylishen, R. E. & Tomlinson, G.) 605–607
pH, dependence on temperature and, of the reactions catalysed by yeast alcohol dehydrogenase with ethanol, acetaldehyde and butyraldehyde as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311
Phage, *see* Bacteriophage
Phenol oxidase, hydroxylation of tyrosine by, from third-instar larvae of the blowfly *Calliphora erythrocephala* (Pau, R. N. & Kelly, C.) 565–573
Phlorrhizin, thiol groups protected by glucose and, in pig small-intestine brush-border membranes (Smith, M. W., Ferguson, D. R. & Burton, K. A.) 617–619
Phosphatase, alkaline, ovary, mouse, ethylenediamine-*NN'*-tetra-acetate-dependent amino acid-stimulated inactivation of (Bramley, T. A.) 259–265
Phosphate, inorganic, characterization of the teichuronic acid of the cell walls of *Bacillus subtilis* W23 grown in the presence of limiting concentrations of, in a chemostat (Wright, J. & Heckels, J. E.) 187–189
Phosphorylase *a*, properties of, and its converter enzymes in haemolysates of erythrocytes from normal human subjects and from patients with type VI glycogen-storage disease (Lederer, B., Van Hoof, F., Van den Berghe, G. & Hers, H.-G.) 23–35
Phosphorylase *b*, skeletal-muscle, rabbit, kinetic method to establish the specificity of spin labelling of, and other macromolecules (Griffiths, J. R., Price, N. C. & Radda, G. K.) 609–612
Phosphorylase *b*, skeletal-muscle, rabbit, nature of the binding site for aromatic compounds in (Soman, G. & Philip, G.) 369–371
Phosphorylase kinase, deficiency of, in haemolysates of erythrocytes from human patients with type VI glycogen-storage disease (Lederer, B., Van Hoof, F., Van den Berghe, G. & Hers, H.-G.) 23–35

Phycocyanin, C-, *Cyanidium caldarium*, physical-chemical properties of (Kao, O. H. W., Edwards, M. R. & Berns, D. S.) 63–70
Physarum polycephalum, properties of poly(adenosine diphosphate ribose) polymerase from (Brightwell, M. D., Leech, C. E., O'Farrell, M. K., Whish, W. J. D. & Shall, S.) 119–129
Pituitary gland, posterior, ox, co-operative binding of oxytocin to neurophysin II from (Hope, D. B., Wälti, M. & Winzor, D. J.) 377–379
Plasma, human, formation of amides in the reactions of thiol esters with amines catalysed by clotting Factor XIII from, and other transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Plasma membrane, *see* Membrane, plasma
Plastocyanin, spinach-leaf, amino acid sequence of (Scawen, M. D., Ramshaw, J. A. M. & Boulter, D.) 343–349
Platelets, human, evidence that the exposed proteins are the distinguishing characteristics of the plasma membranes of, and lymphocytes (Gates, R. E., Phillips, D. R. & Morrison, M.) 373–376
Pneumococcal polysaccharide, type III, comparison of the amino acid sequences of the variable domains of two homogeneous rabbit anti-pneumococcal antibodies specific for (Jaton, J.-C.) 235–247
Poly(adenosine diphosphate ribose) polymerase, *Physarum polycephalum*, properties of (Brightwell, M. D., Leech, C. E., O'Farrell, M. K., Whish, W. J. D. & Shall, S.) 119–129
Polyribosomes, skeletal-muscle, chick-embryo, preparation of aminoacyl-transfer ribonucleic acid attached to (Nwagwu, M.) 473–477
Polysaccharide, pneumococcal, type III, comparison of the amino acid sequences of the variable domains of two homogeneous rabbit anti-pneumococcal antibodies specific for (Jaton, J.-C.) 235–247
Polysomes, *see* Polyribosomes
Porphyrins, heptacarboxylic and hexacarboxylic, preparative decarboxylation of uroporphyrin to, by heating at atmospheric pressure (With, T. K.) 249–251
Potassium chloride, activation and stabilization of *Halobacterium cutirubrum* citrate synthase by, and other salts (Higa, A. & Cazzulo, J. J.) 267–274
Potassium *n*-decyl phosphate, interaction between ox serum albumin and, and other surface-active agents (Jones, M. N., Skinner, H. A. & Tipping, E.) 229–234
Propan-2-ol, kinetics of the oxidation of butan-1-ol and, by oxidized nicotinamide–adenine dinucleotide catalysed by yeast alcohol dehydrogenase (Dickenson, C. J. & Dickinson, F. M.) 541–547
Protease, *see* Proteinase
Protein, membrane, erythrocyte, human, major, evidence that, has an S-shaped structure traversing the membrane twice and containing a duplicate set of sites (Jenkins, R. E. & Tanner, M. J. A.) 393–399
Proteinase, acid, purification and properties of, from *Aspergillus oryzae* and the formation of π-chymotrypsin (Davidson, R., Gertler, A. & Hofmann, T.) 45–53
Proteins, exposed, evidence that, are the distinguishing characteristics of the plasma membranes of human lymphocytes and platelets (Gates, R. E., Phillips, D. R. & Morrison, M.) 373–376
Proteins, identification of thiohydantoin derivatives of amino acids directly by thin-layer chromatography and indirectly by gas–liquid chromatography and its use in the determination of amino acid sequences of (Rangarajan, M. & Darbre, A.) 435–438
Proteins, nuclear, liver, rat, chemical and metabolic properties of adenosine diphosphate ribose derivatives of (Smith, J. A. & Stocken, L. A.) 523–529
Pseudomonas testosteroni N.C.I.B. 10808, purification and properties of L-histidine–2-oxoglutarate aminotransferase from (Hacking, A. J. & Hassall, H.) 327–334
Pyridoxal 5′-phosphate, amino acid sequences of the peptides binding, obtained by chymotryptic digestion of sheep liver cytoplasmic and mitochondrial aspartate aminotransferases (Campos-Cavieres, M. & Milstein, C. P.) 275–281
Pyridoxal 5′-phosphate, equilibrium position of the reaction of ox liver glutamate dehydrogenase with (Chen, S.-S. & Engel, P. C.) 351–358
Pyridoxal 5′-phosphate, requirement for, as cofactor for *Pseudomonas testosteroni* N.C.I.B. 10808 L-histidine–2-oxoglutarate aminotransferase (Hacking, A. J. & Hassall, H.) 327–334
Pyrimidine oligodeoxyribonucleotides, stability of, released during the degradation of bacteriophage f1 deoxyribonucleic acid with formic acid–diphenylamine reagent (Tate, W. P. & Petersen, G. B.) 439–445
Pyrophosphatase, inorganic, purification and heterogeneity of, from pig scapula cartilage (Felix, R. & Fleisch, H.) 103–109
Pyrophosphatase, inorganic, scapula-cartilage, pig, properties of (Felix, R. & Fleisch, H.) 111–118

Quinones, nomenclature of, with isoprenoid side chains (IUPAC–IUB Commission on Biochemical Nomenclature) 15–21

Red blood cells, *see* Erythrocytes
Reticulocytes, rabbit, presence of a high-molecular-weight guanine-plus-cytosine-rich fragment at the 3′-hydroxyl terminus of 28S ribosomal ribonucleic acid from (Hadjiolov, A. A., Cox, R. A. & Huvos, P.) 625–628
Ribonuclease, pancreatic, dromedary, amino acid sequence of (Welling, G. W., Groen, G. & Beintema, J. J.) 505–511
Ribonuclease, pancreatic, ox, allosteric model for (Walker, E. J., Ralston, G. B. & Darvey, I. G.) 425–433
Ribonucleic acid, biosynthesis of, in isolated rat liver nuclei under conditions supporting normal nuclear processing and transport of ribosomal ribonucleic acid and messenger ribonucleic acid (McNamara, D. J., Racevskis, J., Schumm, D. E. & Webb, T. E.) 193–197
Ribonucleic acid, mechanism of the inhibition by 8-hydroxyquinoline and lomofungin of the biosynthesis of, by *Escherichia coli* ribonucleic acid polymerase (Fraser, R. S. S. & Creanor, J.) 401–410
Ribonucleic acid, messenger, biosynthesis of ribonucleic acid in isolated rat liver nuclei under conditions supporting normal nuclear processing and transport of ribosomal ribonucleic acid and (McNamara, D. J., Racevskis, J., Schumm, D. E. & Webb, T. E.) 193–197
Ribonucleic acid, mitochondrial, L-cell, simple method for the characterization of (Haldar, D. Waters, B. K. & Freeman, K. B.) 621–623

Ribonucleic acid, nuclear, effect of 2-allyl-2-isopropylacetamide on the biosynthesis of, in rat liver (Sardana, M. K., Satyanarayana Rao, M. R. & Padmanaban, G.) 185–186
Ribonucleic acid, nuclear, use of ammonium acetate in combination with ethanol in the precipitation of (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Ribonucleic acid polymerase, *Escherichia coli*, mechanism of the inhibition by 8-hydroxyquinoline and lomofungin of the biosynthesis of ribonucleic acid by (Fraser, R. S. S. & Creanor, J.) 401–410
Ribonucleic acid polymerases, uterus, rabbit, immature, effects of the administration of oestradiol-17β on the activities of (Borthwick, N. M. & Smellie, R. M. S.) 91–101
Ribonucleic acid, ribosomal, biosynthesis of ribonucleic acid in isolated rat liver nuclei under conditions supporting normal nuclear processing and transport of messenger ribonucleic acid and (McNamara, D. J., Racevskis, J., Schumm, D. E. & Webb, T. E.) 193–197
Ribonucleic acid, ribosomal, liver, rat, separation of, from non-ribosomal ribonucleic acids by chromatography as constituents of ribonucleoprotein complexes on nucleoprotein–Celite columns (Lichtenstein, A. V., Alechina, R. P. & Shapot, V. S.) 447–456
Ribonucleic acid, ribosomal, 28S, reticulocyte, rabbit, presence of a high-molecular-weight guanine-plus-cytosine-rich fragment at the 3′-hydroxyl terminus of (Hadjiolov, A. A., Cox, R. A. & Huvos, P.) 625–628
Ribonucleic acid, ribosomal, use of ammonium acetate in combination with ethanol in the precipitation of (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Ribonucleic acid, transfer, aminoacyl-, preparation of, attached to chick-embryo skeletal-muscle polyribosomes (Nwagwu, M.) 473–477
Ribonucleic acid, transfer, use of ammonium acetate in combination with ethanol in the precipitation of (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Ribonucleic acid, use of ammonium acetate in combination with ethanol in the precipitation of (Osterburg, H. H., Allen, J. K. & Finch, C. E.) 367–368
Ribonucleic acids, liver, rat, fractionation by chromatography on nucleoprotein–Celite columns of, as constituents of ribonucleoprotein complexes (Lichtenstein, A. V., Alechina, R. P. & Shapot, V. S.) 447–456
Ribonucleoprotein complexes, liver, rat, fractionation by chromatography on nucleoprotein–Celite columns of ribonucleic acids as constituents of (Lichtenstein, A. V., Alechina, R. P. & Shapot, V. S.) 447–456
Ribosomal ribonucleic acid, *see* Ribonucleic acid, ribosomal
Roots, barley, properties and occurrence of three different forms of glutamate decarboxylase from, and embryos (Inatomi, K. & Slaughter, J. C.) 479–484

Seedlings, *Acacia farnesiana*, purification and properties of *S*-alkyl-L-cysteine lyase from (Mazelis, M. & Creveling, R. K.) 485–491
Serum albumin, *see* Albumin, serum
Skeletal muscle, *see* Muscle, skeletal
Skin fibroblasts, chick, cultured, content of actin in (Bray, D. & Thomas, C.) 221–228
Slime mould (*Physarum polycephalum*), properties of poly(adenosine diphosphate ribose) polymerase from (Brightwell, M. D., Leech, C. E., O.Farrell, M. K., Whish, W. J. D. & Shall, S.) 119–129
Small intestine, *see* Intestine, small
Spinach (*Spinacia oleracea*) leaves, amino acid sequence of plastocyanin from (Scawen, M. D., Ramshaw, J. A. M. & Boulter, D.) 343–349
Spinacia oleracea, *see* Spinach
Steroid (C_{19}) 5β-reductase, subcellular localization and properties of, from mouse adrenal gland (Collins, W. & Cameron, E. H. D.) 165–174
Sulphydryl, *see* Thiol
Supernatant fraction, *see* Cytosol
Superoxide dismutase, polarographic assay of the activity of, and its intracellular distribution in rat liver (Tyler, D. D.) 493–504
Surface-active agents, interaction between ox serum albumin and (Jones, M. N., Skinner, H. A. & Tipping, E.) 229–234
Sweet-potato (*Impomea batatas*) tubers, nature of the multiple forms of glucose phosphate isomerase from (Philips, T. L., Porter, D. W. & Gracy, R. W.) 381–384

Teichuronic acid, characterization of, of the cell walls of *Bacillus subtilis* W23 grown in the presence of limiting concentrations of phosphate in a chemostat (Wright, J. & Heckels, J. E.) 187–189
Temperature, dependence on pH and, of the reactions catalysed by yeast alcohol dehydrogenase with ethanol, acetaldehyde and butyraldehyde as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311
Tendon, tail, rat, interaction of bilirubin with reconstituted fibrils of collagen from (Kapoor, C. L.) 199–203
Thiohydantoins, amino acid, identification of, directly by thin-layer chromatography and indirectly by gas–liquid chromatography after hydrolysis (Rangarajan, M. & Darbre, A.) 435–438
Thiol esters, formation of amides in the reactions of amines with, catalysed by transamidases (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Thiol groups, glucose- and phlorrhizin-protected, in pig small-intestine brush-border membranes (Smith, M. W., Ferguson, D. R. & Burton, K. A.) 617–619
Tocopherols, nomenclature of, and related compounds (IUPAC–IUB Commission on Biochemical Nomenclature) 11–14
Transamidases, formation of amides in the reactions of thiol esters with amines catalysed by (Stenberg, P., Curtis, C. G., Wing, D., Tong, Y. S., Credo, R. B., Gray, A. & Lorand, L.) 155–163
Transfer ribonucleic acid, *see* Ribonucleic acid, transfer
Transferrin, ovo-, chicken, amino acid sequence of a carbohydrate-containing fragment of (Kingston, I. B. & Williams, J.) 463–472
Transferrin, ovo- chicken, kinetics of the binding of iron and copper to (Phelps, C. F. & Antonini, E.) 385–391
Transpeptidation reactions, acyl intermediates in, catalysed by penicillopepsin and a discussion of the mechanism of action of pepsins (Takahashi, M. & Hofmann, T.) 549–563

Trypsin, preparation of stable and soluble derivatives by chemical modification of amino groups and guanidino groups of (Nureddin, A. & Inagami, T.) 71–81
Tryptophan residue, preparation and properties of horse heart cytochrome *c* modified by reaction at, with 2-hydroxy-5-nitrobenzyl bromide (Brittain, T. & Greenwood, C.) 253–258
Tubers, sweet-potato, nature of the multiple forms of glucose phosphate isomerase from (Phillips, T. L., Porter, D. W. & Gracy, R. W.) 381–384
Tyrosine, hydroxylation of, by a phenol oxidase from third-instar larvae of the blowfly *Calliphora erythrocephala* (Pau, R. N. & Kelly, C.) 565–573

Uroporphyrin, preparative decarboxylation of, to heptacarboxylic and hexacarboxylic porphyrins by heating at atmospheric pressure (With, T. K.) 249–251
Uterus, rabbit, immature, effects of the administration of oestradiol-17β on the activities of ribonucleic acid polymerases of (Borthwick, N. M. & Smellie, R. M. S.) 91–101

Valyl-transfer ribonucleic acid synthetase, yeast, infrastructure of (Bruton, C. J.) 191–192
Vitamin B_6, *see* Pyridoxal 5′-phosphate
Vitamin E, *see* Tocopherol

Walls, cell, *see* Cell walls

Xanthine oxidase, nature of the association of, with ox milk-fat-globule membrane (Briley, M. S. & Eisenthal, R.) 417–423

Yeast, baker's, dependence on pH and temperature of the reactions catalysed by alcohol dehydrogenase from, with ethanol, acetaldehyde and butyraldehyde as substrates (Dickenson, C. J. & Dickinson, F. M.) 303–311
Yeast, baker's, kinetics of the oxidation of butan-1-ol and propan-2-ol by oxidized nicotinamide–adenine dinucleotide catalysed by alcohol dehydrogenase from (Dickenson, C. J. & Dickinson, F. M.) 541–547
Yeast, infrastructure of valyl-transfer ribonucleic acid synthetase from (Bruton, C. J.) 191–192

Zinc ions, characterization of jack-bean α-D-mannosidase as a metalloenzyme containing (Snaith, S. M.) 83–90
Zinc ions, effects of, on the activity and fluorescence of holoenzymes of human and ox carbonic anhydrases (Hesketh, T. R. & Flanagan, M. T.) 37–43